

ABSTRACT

A silicon carbide fiber having a boron nitride layer in a fiber surface and having the following properties of a to c,
5 to c,

a. the existent ratio of boron slopingly increases towards the surface of the fiber,

b. the existent ratio of boron in the region of from the fiber surface to a depth of 500 nm is 0.5 to 1.5 % by weight,

10 c. the existent ratio of boron in a fiber central portion which is a region of a depth of at least 3 μm below the fiber surface is 0 to 0.2 % by weight,
and a process for the production thereof.